

[002] FIELD OF THE INVENTION

a1 [003] The invention concerns an electrodynamic drive train system for a vehicle.

[004] BACKGROUND OF THE INVENTION

ay [008] SUMMARY OF THE INVENTION

03 [013] BRIEF DESCRIPTION OF THE DRAWINGS

[014] The invention will now be described, by way of example, with reference to the accompanying drawings in which:

(K3) a2 [020] DETAILED DESCRIPTION OF THE INVENTION

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13. (NEW) An electrodynamic drive system (2) for a vehicle located between a drive source (4) and a manual transmission (16), having a planetary gear drive (12), which includes sun gear (50), internal gear (10) planetary gear (36) and planetary gear carrier (32), of which the planetary carrier (32) is connected to the manual transmission (16), the internal gear (10) is connected to the drive source (4) and the sun gear (50) is bound to at least one electric motor (22), with a shift clutch (40) between the planetary gear carrier and the sun gear (50) operable to bypass the planetary drive (12).

14. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 13, wherein a blocking device is provided for torque reinforcement during starting of the drive source (4).

15. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 14, wherein the blocking device as in the manual transmission (16) and is formed by the simultaneous engagement of two gear stages.

16. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 14, wherein the blocking device is a parking lock.

17. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 14, wherein the blocking device is a braking apparatus of the vehicle and a simultaneously engaged gear stage of the shifting clutch (40).

18. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 14, wherein the blocking device is formed by an override clutch (59) on an input shaft (28) of the manual transmission (16).

19. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 13, wherein between the drive source (4) and the electrodynamic drive system (2) an overrunning clutch (58) is provided.

20. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 1 wherein an eddy current brake retard (56) is placed on a shaft (42) of the planetary drive (12).

21. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 13, wherein a plurality of electric motors (22) on the sun gear (50) act upon the planetary drive (12).

22. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 13, wherein the shift clutch (40) includes a dog clutch.

23. (NEW) The electrodynamic drive system (2) for a vehicle according to claim 18, wherein a control is provided, which can regulate the at least one electric motor (22) in 4-quadrant operation.

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